

Appl. No. : **Unknown**
Filed : **Herewith**

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. . . **(Original)** A system for production and insertion of a real dental bridge structure (23) in a real jaw bone structure by means of a number of successive function steps effected by equipment belonging to two or more different parties, said equipment comprising identification equipment (6), computer appliance (7a, 7b), equipment (8), equipment for production of a physical template (15), equipment for production of a working model (16) in cooperation with an articulator (18), equipment for production of the dental bridge structure and insertion equipment (25) for fitting the dental bridge structure on the implant in the jaw bone structure, wherein the computer appliance is designed to receive, and to present on screen, first information transmitted from the identification equipment and based on detection of the jaw bone structure, wherein the computer appliance is arranged with operating elements by means of which it is possible to visually enter modification information concerning, on the one hand, a visual dental bridge structure applied on the visual jaw bone structure with associated teeth and dentine (gum), and, on the other hand, orientations of the implants in the visual dental bridge structure and visual jaw bone structure, wherein the computer appliance is arranged to produce a CAD file (13) based on the first information and the modification information and to transmit the CAD file to the stereolithography machine, wherein the stereolithography machine is arranged to issue second information which can be processed in the equipment for production of the physical template with associated through-bores for sleeves arranged to determine the recessed positions and longitudinal directions for the implants, and wherein the physical template (15) on the one hand forms the basis for production of the working model and, on the other hand, serves as template in a hole formation defined with the sleeves and effected in the real jaw bone structure by means of the insertion equipment.

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2. (Original) The system as claimed in patent claim 1, wherein the identification and computer appliances (6,7a, 7b) are assigned to a first party (1) consisting of a party treating a patient, for example a surgeon, wherein the stereolithography machine is assigned to a second party (2), and wherein the equipment for production of template, working model and real dental bridge structure is assigned to a third party (3), for example dental technician.

3. (Currently amended) The system as in claim 1 claimed in patent claim 1 or 2, wherein the appliances assigned to the various parties can be connected to equipment of a higher order belonging to a fourth party (5) for information provision and/or handling or production of one or more of said functions or parts thereof.

4. (Currently amended) The system as in claim 1, claimed in patent claim 1,2 or 3, wherein the equipment for production of a working model (16) in cooperation with an articulator (18) is arranged to receive bite index information (22) from the identification equipment, the computer appliance and/or the equipment of higher order.

5. (Currently amended) The system as in claim 1, claimed in any of patent claims 1-4, wherein the computer appliance (7a, 7b) and/or the equipment for production of a physical template is/are arranged to indicate positions between the implants for fixing members, for example fixing pins, which extend through the jaw bone structure for retention in or on patient (4) in the hole formation for implants.

6. (Original) An arrangement of a template produced by stereolithography (14) and by means of information from computer appliance (7a, 7b) and used for producing, on the one hand, a dental bridge structure that can be applied on an implant in the jaw bone structure, and, on the other hand, for guiding of hole-forming means (drill) (25) for forming holes for the implants (7e), wherein the template (15) and the dental bridge structure (23) are provided with through-holes, and wherein the through-holes are provided with sleeves by means of which the degrees of recessing of the implants and orientations in the implants can be determined.

7. (Currently amended) The arrangement as claimed in patent claim 6, wherein the sleeves are arranged with first members (52a) which determine their degree of recessing in the template and which, in the recessed position, cooperate with corresponding second members (54a) in the template.

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8. (Currently amended) The arrangement as claimed in patent claim 7, wherein the first members (52a) consist of outwardly projecting flanges and the second members (54a) consist of stop surfaces.

9. (Currently amended) The arrangement as claimed in patent claim 6, wherein the sleeves are arranged with resilient members (56b) which determine their degree of recessing in the template and are designed to be able to be snapped into an internal recess (57a) in the final position of the sleeves.

10. (Currently amended) The arrangement as claimed in patent claim 9, wherein the resilient members (56b) are arranged to emit a click sound when the respective sleeve reaches its final position in the template.

11. (Currently amended) The arrangement as claimed in claim 6 any of patent claims 6-10, wherein the respective sleeve (62) can be anchored or locked by means of cement

12. (Currently amended) The arrangement as in claim 6, claimed in any of patent claims 6-11, wherein first sleeves (52) are arranged for guiding the drill and implant or determining directions in which the drill (s) will operate in the respective implants, and second sleeves (51) for anchoring members or pins which are designed to extend horizontally through the jaw bone.

13. (Currently amended) The arrangement as in claim 6, claimed in any of patent claims 6-12, wherein the template (15) is arranged to reproduce or comprise a material or part which corresponds to the dentine or gum replacement over those parts which extend over the jaw bone, in which the dental bridge is intended to extend.

14. (Currently amended) The arrangement as in claim 6, wherein claimed in any of patent claims 6-13, wherein the template is made of, plastic material with a low coefficient of creep.

15. (Currently amended) The arrangement as in claim 6, wherein claimed in any of patent claims 6-14, wherein the template has a configuration which precisely or clearly fixes the position of the template on the jaw bone (58,59) in order to permit hole formations, for the

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implants, which very accurately match the hole formations in the produced dental bridge (23), and the accuracy can be 0.1-0. 2 mm.

16. (Currently amended) The arrangement as in claim 6, wherein claimed in any of patent claims 6-15, wherein the finished dental bridge (23) is designed to cooperate with teeth (44) in the opposite jaw bone with the aid of bite index added to the template and dental bridge.

17. (Currently amended) The arrangement as in claim 6, wherein claimed in any of patent claims wherein said material or part of the template which corresponds to the dentine or gum replacement is designed to reduce the template production time in a stereolithography machine (8), inter alia, by compared to the case where the working model is replaced in the correct relation to the bone part.